Automatic Programmable Mortar Mixer

LT-CE0030 | Program-controlled planetary mixing and sand feeding

5 litre stainless bowl • Six custom programs • Automatic sand dispenser



5 litres

MIXING BOWL VOLUME

6 programs

USER-DEFINED PROGRAMS

EN 196-1 • ASTM C305 • 35 × 50 × 75 cm • 55 kg

LT-CE0030

Photographs and Mixing Components

Sand hopper, digital program panel and planetary mixing assembly

LT-CE0030 prepares cement pastes and standard mortar using program-controlled operation. The system manages mixing speed, stage durations and sand feeding time. The paddle rotates about its own axis while travelling around the bowl.

SAND HOPPER

Upper hopper for loading standard sand. The automatic dispenser feeds it into the bowl at the programmed stage.

PROGRAM PANEL

Digital display shows the selected program and remaining time. Controls select the operating mode.



STAINLESS BOWL

Approximately 5 litre mixing bowl. Three-point support allows adjustment of bowl-to-paddle distance.

PLANETARY DRIVE

Paddle rotation and orbital movement work together. Provides low and high standard mixing speeds.



Digital display, mode selection and operating controls



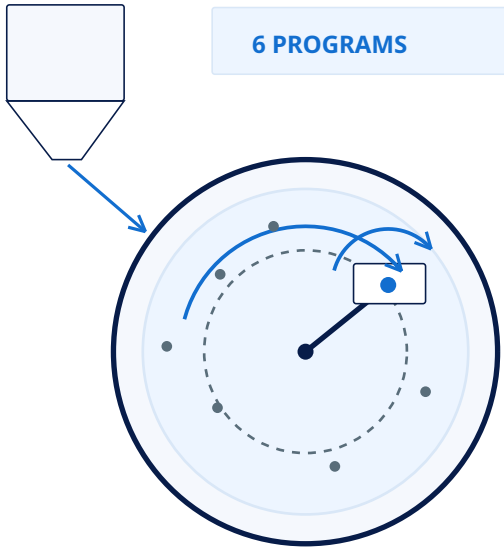
Mixing paddle, bowl interior and sand outlet region

LT-CE0030

Program-Controlled Planetary Mixing

Select program • Load materials • Mix and feed sand • Transfer mix

PLANETARY ACTION AND PROGRAMMED SAND FEED



140 / 62 rpm | 285 / 125 rpm

AUTOMATIC SPEED, TIME AND SAND FEEDING CONTROL

LOW: 140 / 62 | HIGH: 285 / 125 rpm

PADDLE / PLANETARY SPEEDS • SCHEMATIC • NOT TO SCALE

Define the Program

Select a suitable one of six user programs. Define speeds, stage durations and sand feeding time.

Monitor the Automatic Cycle

Load sand into the hopper. The program manages mixing and sand addition; the display shows remaining time.

Transfer the Mix

Transfer the finished mix to specimen preparation. Clean bowl and paddle for the next batch.

Programmable control manages speed changes, mixing durations and sand addition within one sequence. Standard speed levels have separate paddle and planetary values. Additional variable speed adjustment and a manual operating mode are also available.

Speeds, Programs and Repeatability

At low speed, paddle rotation is 140 rpm and planetary movement is 62 rpm. At high speed, these values are 285 and 125 rpm respectively.

Define speed, time and sand feeding in six custom programs. Record the selected program together with the mix recipe. Track specimen identification and preparation time to apply the same conditions to later batches.

Method and Bowl Position Checks

Main references are EN 196-1, ASTM C305 and AASHTO R 115-23. Other application references: EN 196-3, 413-2, 459-2, 480-1, 1015-2, 12617-4; ASTM C187; AASHTO T129 and T131.

Check bowl-to-paddle distance and bowl fixing. The safety microswitch prevents motor operation when the bowl is lowered. Clean bowl and paddle before residues harden.

LT-CE0030

Technical Specifications and Workflow

LT-CE0030 • Automatic Programmable Mortar Mixer

Specification	Technical Information
Product Code	LT-CE0030
Bowl Volume	Approximately 5 litres
Operating Control	Automatic programmed operation and manual mode
User Programs	6 custom programs; speed, time and sand feeding settings
Standard Low Speed	Paddle: 140 rpm; planetary: 62 rpm
Standard High Speed	Paddle: 285 rpm; planetary: 125 rpm
Additional Speed Adjustment	Variable speed control using VFD
Sand Feeding	Automatic sand dispensing at the programmed stage
Digital Display	Active program and remaining mixing time
Bowl and Support	Stainless steel bowl; three-point support
Safety Microswitch	Prevents motor operation when the bowl is lowered
Overall Dimensions	35 × 50 × 75 cm
Weight	55 kg
Power Supply / Motor	220 V, 50–60 Hz, 1 Ph; 370 W

Program, Sand Feeding and Bowl Adjustment

Match program speeds, durations and sand feeding stage to the method. Secure the bowl; check bowl-to-paddle distance and the safety microswitch.

From Program to Repeatable Mixing

01
Program
Select speed, time and sand feeding stage.

02
Load
Load materials and fill the sand hopper.

03
Mix
Monitor the automatic cycle and remaining time.

04
Transfer
Transfer mix; clean the bowl and paddle.

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